

ABSTRACT OF THE DISCLOSURE

A hearing aid analysis system for objective determination of speech perception enhancement for a hearing aid under test uses a source of prerecorded speech sounds and a computer system that includes a speech recognition program to evaluate the hearing aid under
5 test. Hearing aid analysis circuitry is provided with processing circuitry to receive a plurality of signals representing signals generated by speech sounds routed through different acoustic paths, and filter circuitry to selectively simulate a hearing loss. The hearing aid under test is interfaced with the source of prerecorded speech sounds and the hearing aid analysis circuitry. The computer system includes a control program that operates to present the prerecorded speech
10 sounds to the hearing aid analysis circuitry to produce a first degraded signal routed through the filter circuitry and a second processed signal routed through the hearing aid and the filter circuitry. The speech recognition program that compares speech recognition from the first degraded signal and with speech recognition from the second processed signal to determine an objective indication of speech perception enhancement for the hearing aid under test.

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